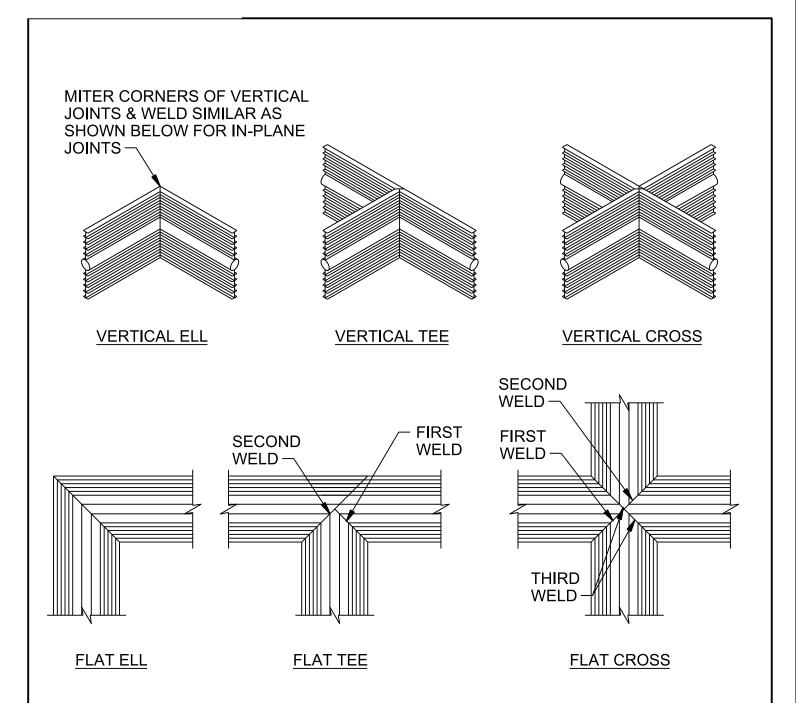


SIZE	"A"	"B"	"C"	"D"	"E"	"F"
4"x3/16"	4"	3/16"	3/16"	3/4"	1/4"	4
6"x3/8"	6"	3/8"	3/8"	7/8"	1/4"	6
9"x3/8"	9"	3/8"	3/8"	1"	1/4"	8

- 1. NON-ROUND CENTER BULBS SHALL HAVE A MINIMUM OUTSIDE DIMENSION OF 'D'.
- 2. SEE SPLICE DETAIL (0315-011)
- 3. BULB TYPE WATERSTOP SHOWN IS REQUIRED FOR EXPANSION AND CONTROL JOINTS. SIMILAR WATERSTOPS WITHOUT CENTER BULB MAY BE SUBSTITUTED AT CONSTRUCTION JOINTS.
- 4. USE 6 INCH WATERSTOPS IN ALL CONSTRUCTION JOINTS UNLESS SPECIFICALLY SHOWN OTHERWISE.

PLASTIC WATERSTOP

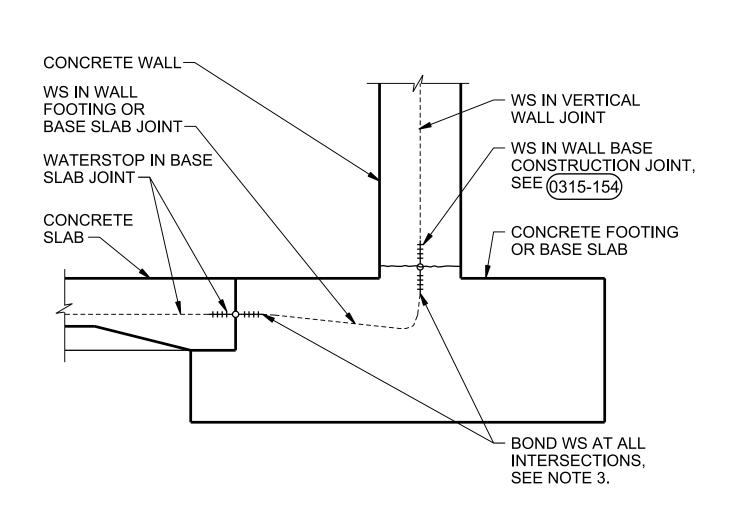
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ALL WELDS SHALL BE PER WATERSTOP MANUFACTURER'S RECOMMENDATIONS.

WATERSTOP JOINTS

NTS

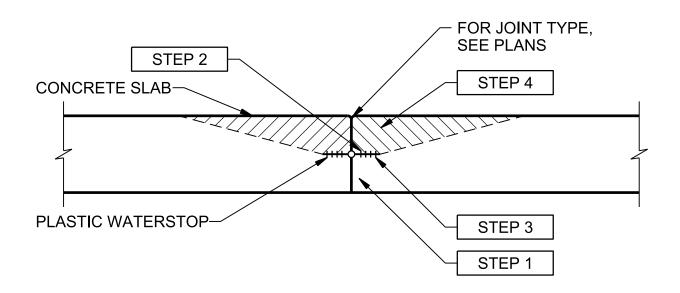


- 1. SUBMIT DETAILS OF SPLICING AND LOCATION.
- 2. BOND OR SPLICE ALL HORIZONTAL TRANSVERSE WATERSTOPS IN BASE SLAB JOINTS TO CONTINUOUS LONGITUDINAL WATERSTOP IN WALL BASE FOR COMPLETE SEAL.
- 3. BOND OR SPLICE ALL VERTICAL WATERSTOPS IN WALL JOINTS TO LONGITUDINAL WATERSTOP IN WALL BASE FOR COMPLETE SEAL, SEE (315-011) FLAT CROSS JOINT.
- 4. FOR CONCRETE PLACEMENT SEQUENCE, SEE (0315-133)
- 5. FOR PLASTIC WATERSTOP DETAILS, SEE (0315-001)

WATERSTOP CONNECTION

NTS

CH2M HILL



PLACEMENT SEQUENCE SHOWN REQUIRED ON BOTH SIDES OF JOINTS, IN ALL CONCRETE SLAB AND FOOTING POURS WITH HORIZONTALLY PLACED PLASTIC WATERSTOPS.

STEP 1

PLACE CONCRETE BELOW WATERSTOP FIRST, REMOVE ALL AIR VOIDS BY VIBRATING THOROUGHLY.

STEP 2

TO CONFIRM THERE ARE NO AIR VOIDS, LIFT WATERSTOP. A CONTINUOUS IMPRESSION OF THE WATERSTOP, INCLUDING EDGE OF BULB, SHOULD BE VISIBLE IN THE FRESH CONCRETE. CONTINUE THIS PROCEDURE ALONG THE ENTIRE POURED JOINT, END TO END. IF A CONTINUOUS IMPRESSION IS CONFIRMED, PROCEED WITH STEP 4. IF A VOID LARGER THAN 1/4 INCH IN DIAMETER IS PRESENT ANYWHERE IN THE WATERSTOP IMPRESSION. PROCEED WITH STEP 3.

STEP 3

IF A VOID LARGER THAN 1/4 INCH IN DIAMETER IS PRESENT IN THE WATERSTOP IMPRESSION, ADDITIONAL CONCRETE SHALL BE PLACED UNDER THE WATERSTOP, VIBRATED, AND STEP 2 REPEATED.

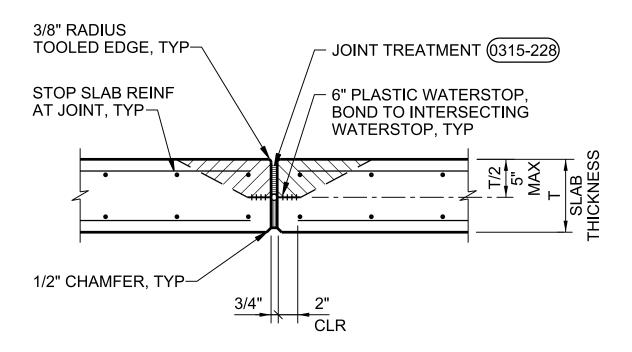
STEP 4

FINISH PLACING CONCRETE ABOVE THE WATERSTOP TO TOP OF SLAB.

CONCRETE PLACEMENT SEQUENCE

NTS

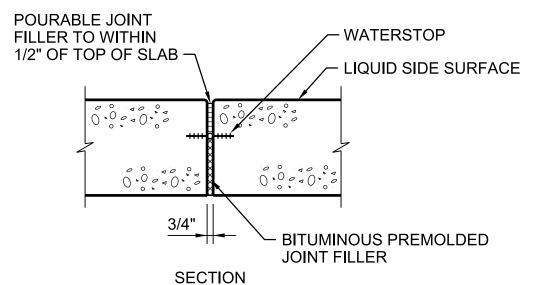
CH2M HILL



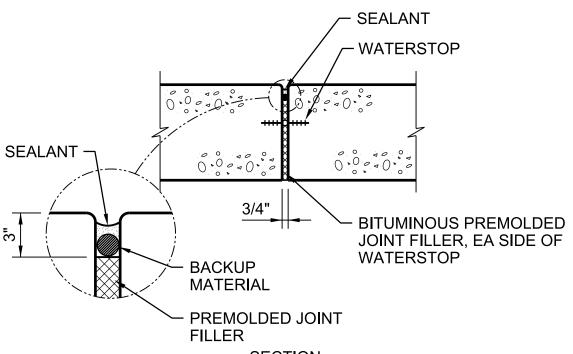
FOR CONCRETE PLACEMENT AROUND WATERSTOP, SEE (0315-133)

ELEVATED SLAB EXPANSION JOINT

NTS



AT LIQUID HOLDING SLABS (SEE NOTE 2)



<u>SECTION</u>

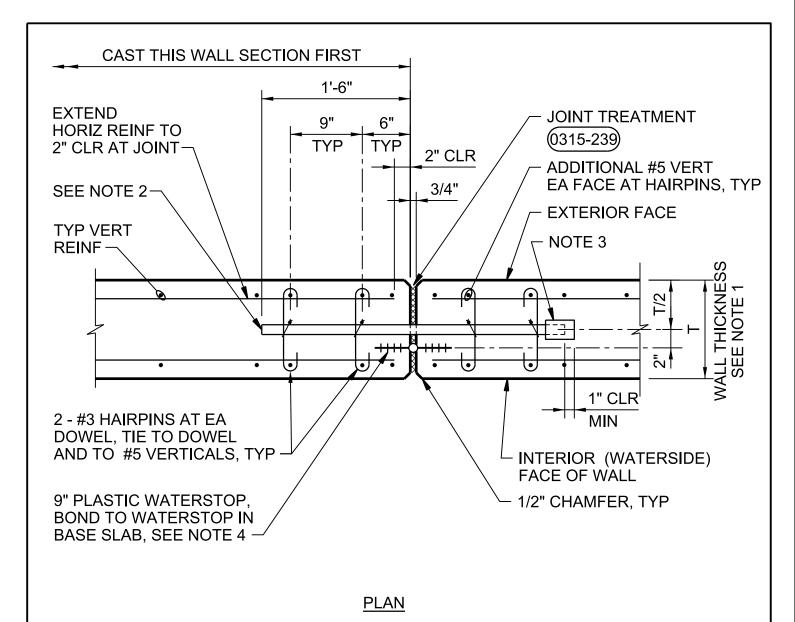
AT NON-LIQUID HOLDING SLABS

NOTES:

- ATTACH PREMOLDED JOINT FILLER WITH 8d GALVANIZED NAILS @ 1'-0" SPACING EMBEDDED IN FIRST SLAB POUR.
- LIQUID HOLDING SLABS INCLUDING AREAS FOR TEMPORARY SECONDARY CONTAINMENT.

SLAB EXPANSION JOINT TREATMENT

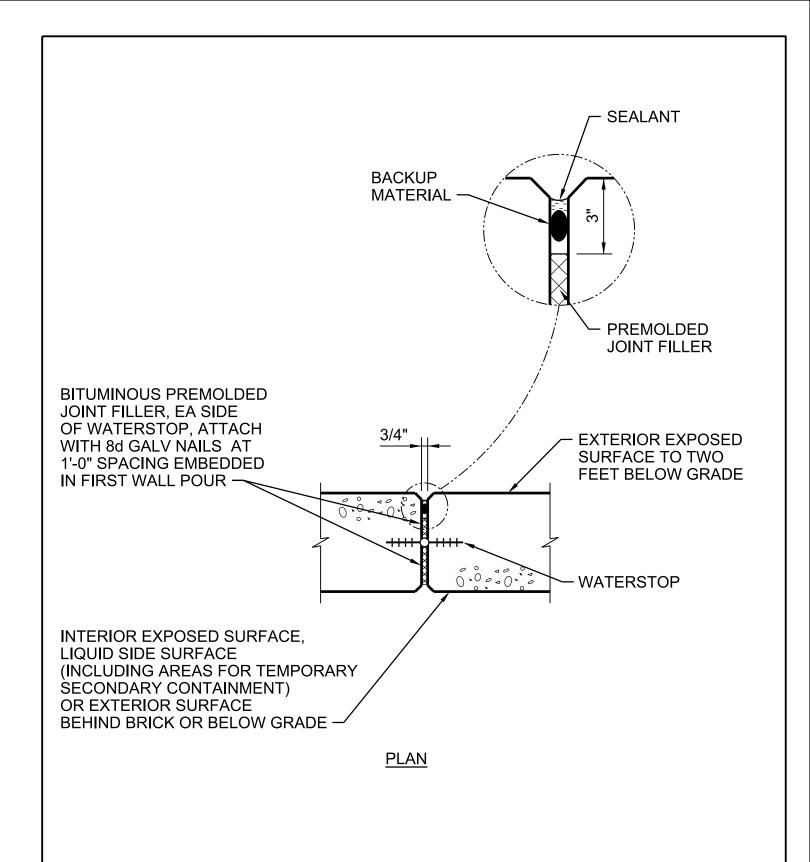
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- 1. FOR WALLS WITH THICKNESS OF 10" THRU 24". FOR 10" WALLS LOCATE DOWELS 4" FROM FACE OF WALL INSTEAD OF T/2 INDICATED.
- 2. 1" DIA \times 3'-0" SMOOTH COATED BAR DOWELS. LOCATE AT 1'-0" MAX FROM TOP AND 2'-0" FROM BOTTOM OF WALL AND AT 2'-0" MAX SPACING. ALIGN AND TIE-IN-PLACE TO REINF COATING SHALL CONSIST OF A CORROSION RESISTANT COATING PLUS A LUBRICANT COATING AS SPECIFIED.
- 3. 1" ID \times 2" PLASTIC CAP WITH 1" POLYSTYRENE BETWEEN END OF DOWEL AND END CAP. TAPE TO BAR FOR WATERTIGHT SEAL.
- 4. BEND VERTICAL JOINT WATERSTOP OVER TO CENTERLINE OF WALL IN BOTTOM 2'-0" OF WALL, AND SPLICE TO WATERSTOP IN WALL BASE CONSTRUCTION JOINT. SEE(0315-012)

WALL VERTICAL EXPANSION JOINT

NTS



WALL EXPANSION JOINT TREATMENT

NTS